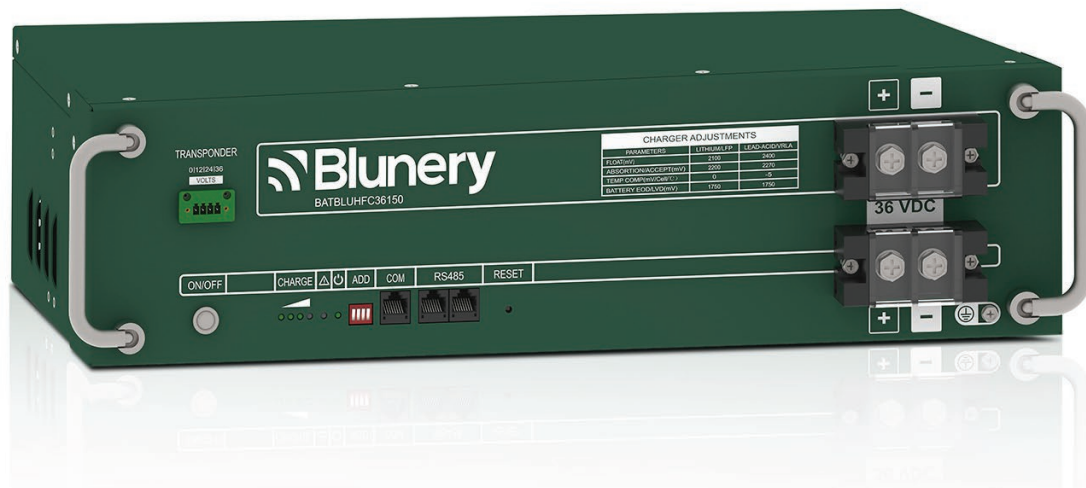


## LFP 36V-HFC BATTERY

BATBLUHFC36 SERIES



### Description

The series of LFP (Lithium-Ion-Phosphate) BATBLUHFC batteries of BLUNERY is a new environmentally friendly backup power module, specially designed for the CATV and Internet market. It has a noticeable superior life span, extra reduced size, very light weight and ready for strong environmental working conditions. This battery is the ideal solution for all the back-up needs of the UPSs deployed in the HFC networks.

Its high performance LFP cells and the proven built-in BMS' design, make this battery fully compatible with all the power supplies in today's marketplace.

Multiple batteries can be connected in parallel to expand capacity, so longer back-up times can be obtained.

Old and heavy lead-acid VRLA batteries can be quickly and securely replaced during any maintenance stage. No additional procedures are required, as this change is totally transparent for any installation.

### Main Features

- Unique wide working (Charge) temperature range.
- The protections functions included in the embedded BMS (battery management system) are: over-discharge, over-charge, over-current and high/low temperature, etc.
- The BMS can automatically manage Charge and Discharge states and balance each cell's current and voltage.
- More than 5000 times cycle life.
- Very small size with light weight, specially designed for retrofit in any standard outdoor cabinet.
- Back-up times are, for the average CATV UPS's load, in the range of 150/300 minutes.
- Remote monitoring access via DOCSSIS 3.0 Transponder (future development).

# LFP 36V-HFC BATTERY

## BATBLUHFC36 SERIES



### SPECIFICATIONS

SPECIFICATIONS	BATBLUHFC36150	BATBLUHFC36300
ELECTRICAL		
MAIN		
Nominal Voltage [VDC]	35.4	
Cathode Plate Technology	LFP (3.20Vpc)	
Back-Up Time @ UPS Load: 7Amps [min]	> 155	> 310
Back-Up Time @ UPS Load: 15Amps [min]	> 75	> 165
Maximum Discharge Current [Amps]	55	108
Maximum Charge Current [Amps]	50	100
Maximum DoD [%]	100	
Nominal Capacity [Ah]	50	100
Nominal Capacity [Wh]	1800	3600
EXTENDED		
Working Voltage Range [VDC]	31.50 - 40.00	
Maximum Voltage “OVP” [VDC]	41.10	
Minimum Voltage “LVD” [VDC]	31.20	
Charge Voltage Range [VDC]	39.50 - 40.10	
Shortcircuit Protection	Yes	
Self Discharge - Storage [%/Month]	<= 3 (25°C/77°F, 50%SoC)	
Cycle Life [Cycles]	>= 5000 (25°C/77°F, 80%DoD, 0.2C)	
Expected Life Span [Years]	> 15 (25°C/77°F)	
OTHERS		
Communications Port	RS232	RS232 / RS485
ON/OFF Power Switch	Yes	
Consumption in Sleep-Mode [mAmps]	40	
Internal Heater	Yes	
SoC Front Panel Indicator	Yes	
Anti-theft Feature	Optional	
Remote Access (via DOCSIS Transponder)	Future Development	
MECHANICAL		
Dimensions, H x W x D [mm/inches]	315 x 197 x 159 / 12,49 x 7,80 x 6,30	220 x 520 x 330 / 8,70 x 20,50 x 13,00
Weight [Kg]	18 / 40	40 / 88
Paint	Black Powder Coat	
Front Panel Handles	2	
ENVIRONMETAL		
Working Temperature [°C/°F]	-20 to +60 / -4 to +140 (Discharge)	
	-10 to +60 / +14 a +140 (Charge)	
Storage Temperature [°C/°F]	0 to +40 / +32 to +104	
Relative Humidity - Non Condensing [%]	<= 95	
Altitude [masl]	<= 4000 (by design)	